SERVICE GUIDE

Z530

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Features

Model

Schedule

MP Time	First TA on Aug, 2015

Selling Information

Target Segment	Entry LTE Phone
Selling Region	GC (NA/HK), EMEA, Taiwan, Indonesia, Thailand, Malaysia, Myanmar, Philippine, PA (Chile, Mexico, Canada), JP

Main Specification

Bands	EMEA: FDD-LTE : 2100/1800/2600/800 (B1/3/7/20) WCDMA : 850/900/1900/2100 (B5/8/2/1) GSM/GPRS/EDGE : 850/900/1800/1900 PA: FDD-LTE : 1900/1700/2600/700 (B2/4/7/12) WCDMA : 850/1700/1900/2100 (B5/4/2/1) GSM/GPRS/EDGE : 850/900/1800/1900 TW: FDD-LTE : 1800/900/700 (B3/8/28) WCDMA : 850/900/1900/2100 (B5/8/2/1) GSM/GPRS/EDGE : 850/900/1800/1900 JP : FDD-LTE : 2100/1800/800/1500 /700 (B1/3/19/21/28) WCDMA : 800/1700/2100/800 (B19/9/1/6) GSM/GPRS/EDGE : 850/900/1800/1900
Platform	MT6735 Quad-core 1.3GHz
OS	Android L
Dimension	144 x 70.3 x 8.9mm , <145g (w/ battery)
Display	5" HD IPS (1280 x 720), Capacitive multi-touch, GFF, full bonding , With Anti-Finger print Coating and Quick touch, Sodalime glass.
Camera	8MP AF (co-lay with 13MP AF) RearCAM with flash LED 8MP FF (co-lay with 5MP FF) Front CAM.
Connectivity	Wifi 802.11 b/g/n, FM, BT 4.0w/LE, GPS/A-GPS/GLONASS , WiFi HotSpot
Memory	ROM 8GB eMMC + RAM 1GB LPDDR3
I/O	3.5mm audio jack, MicroUSB, MicroSD(up to 32GB, SDHC 2.0 compatible), Micro-SIM (Dual-SIM option)
Sensor	G-Sensor, P/L Sensor, hall sensor
Audio	Speaker (3 magnet) x 1 , MIC x 2, Audio Jack, Receiver, DTS
Key	Hard Key: Power, Volume up/down
Battery	2420mAh (min) (74.5 x 60.16 x 4.14mm, cell : LG 375870L1) with removable back door (Rechargeable / replaceable)

Version: UR30_20150608_V14

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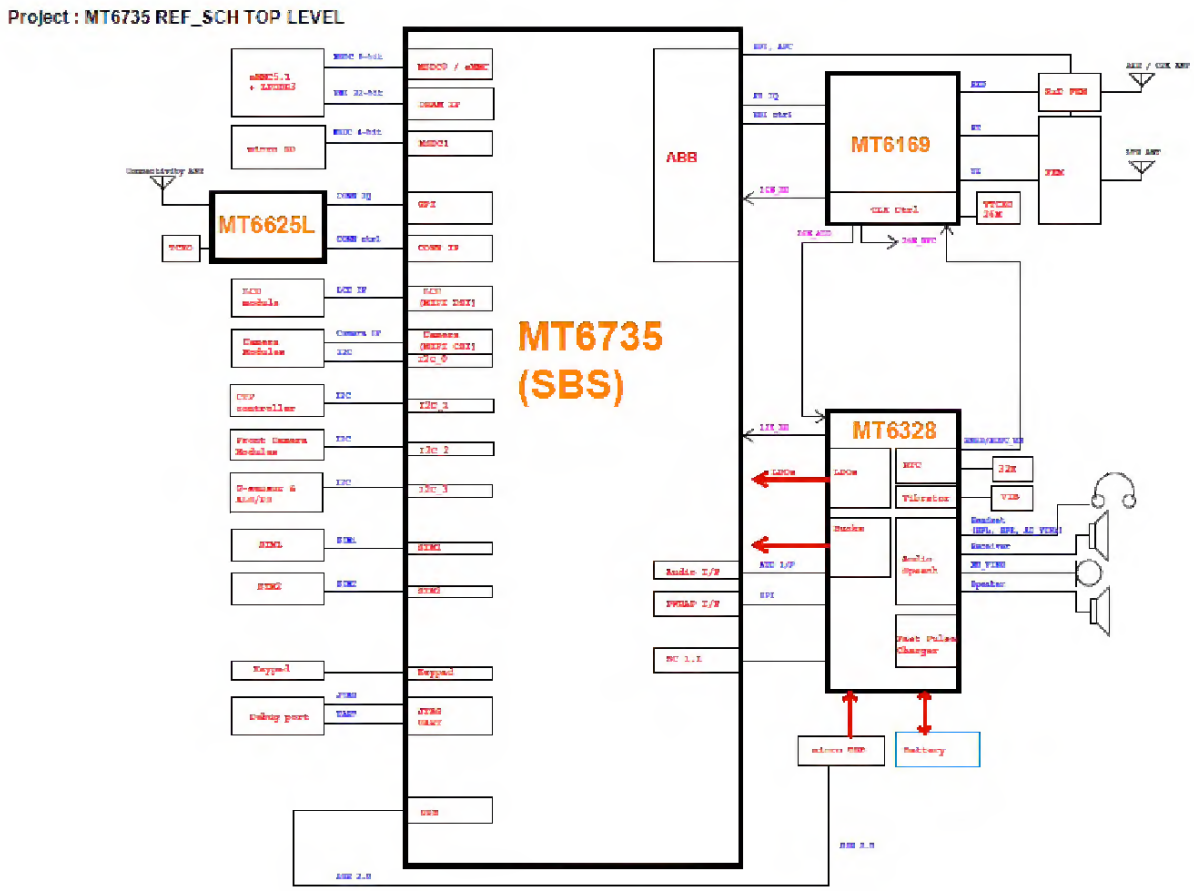
System Block Diagram



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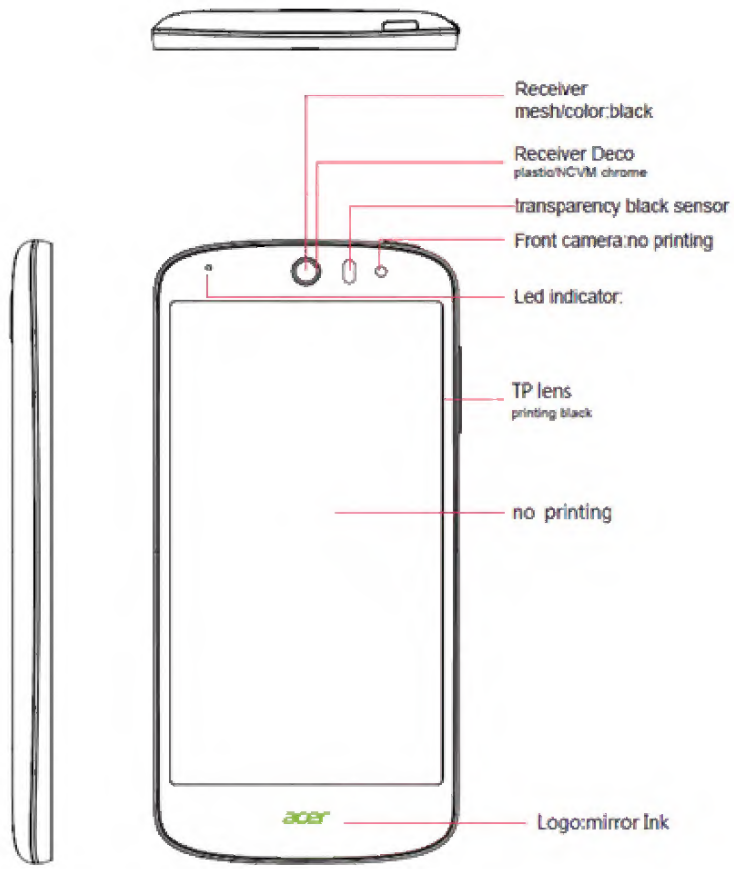
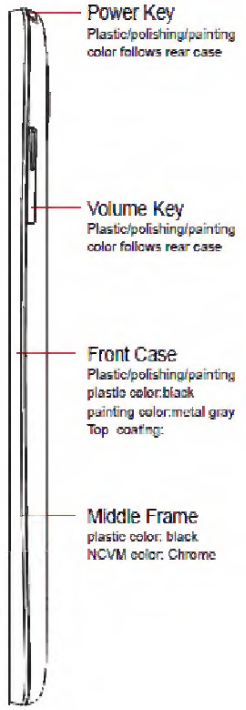
Product six View





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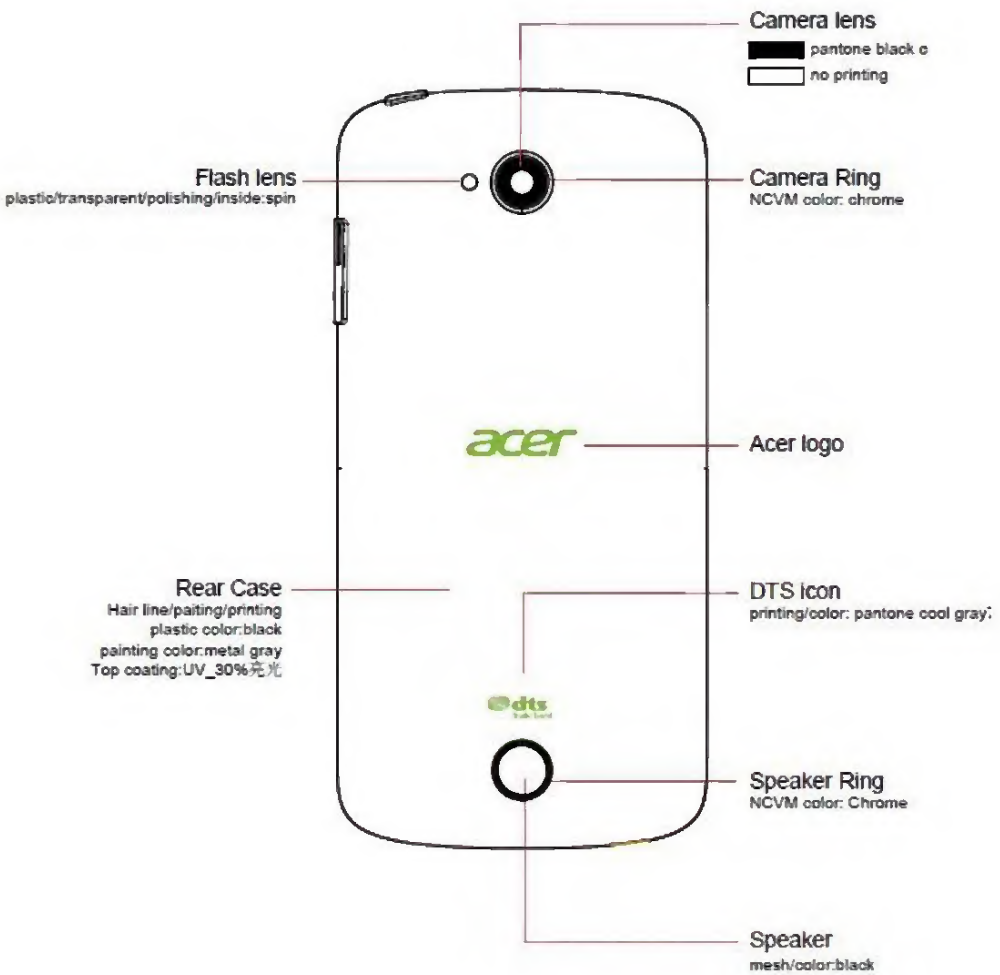

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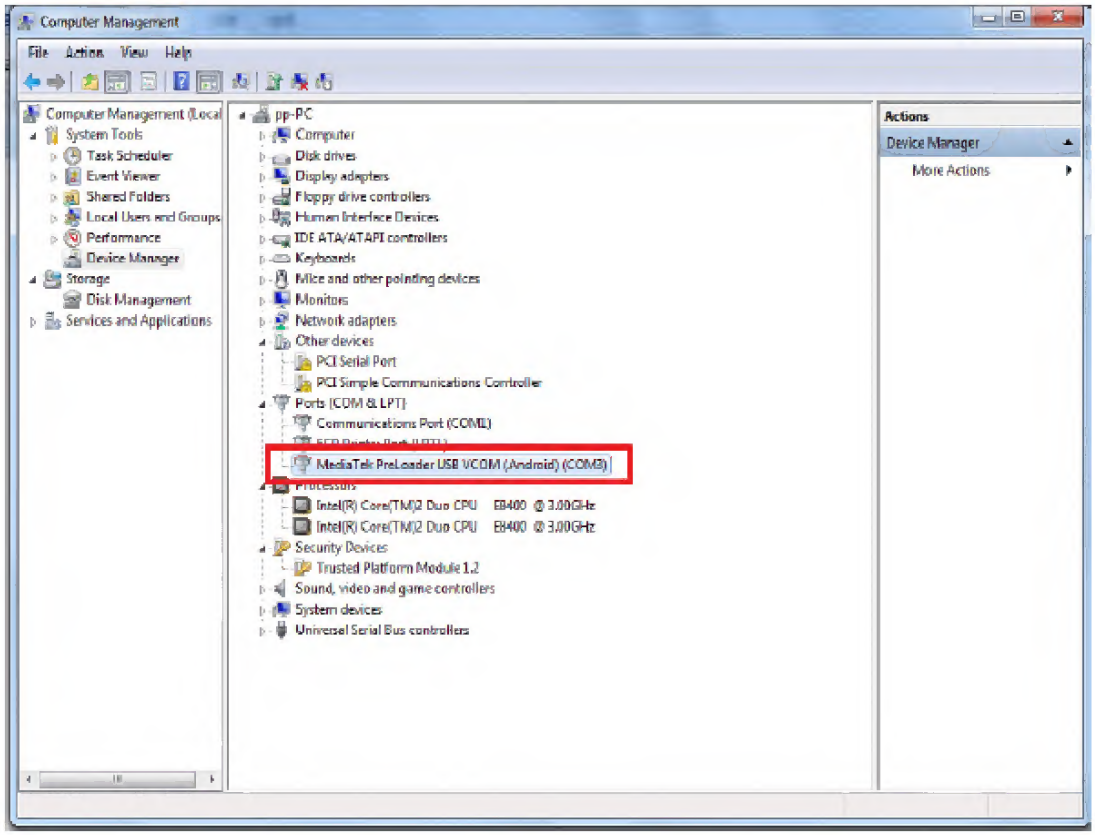
Software Upgrade SOP

1. Install USB Driver

1.1 Run "Install.bat" Which in Driver_Auto_Installer_V1.352.00

2. When you upgrade the FW, you can see the follow item if the driver is install ok



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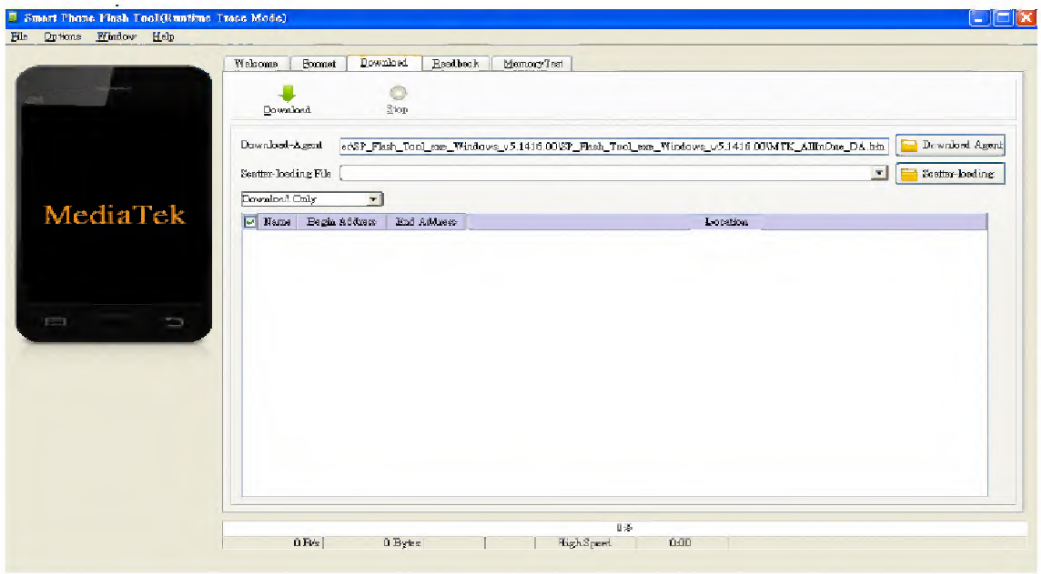
3. Upgrade Phone SW

3.1 Open "Flash tool"



3.2 Load "Scatter File", Tap scatter loading choose "MT6582…TXT" and loading

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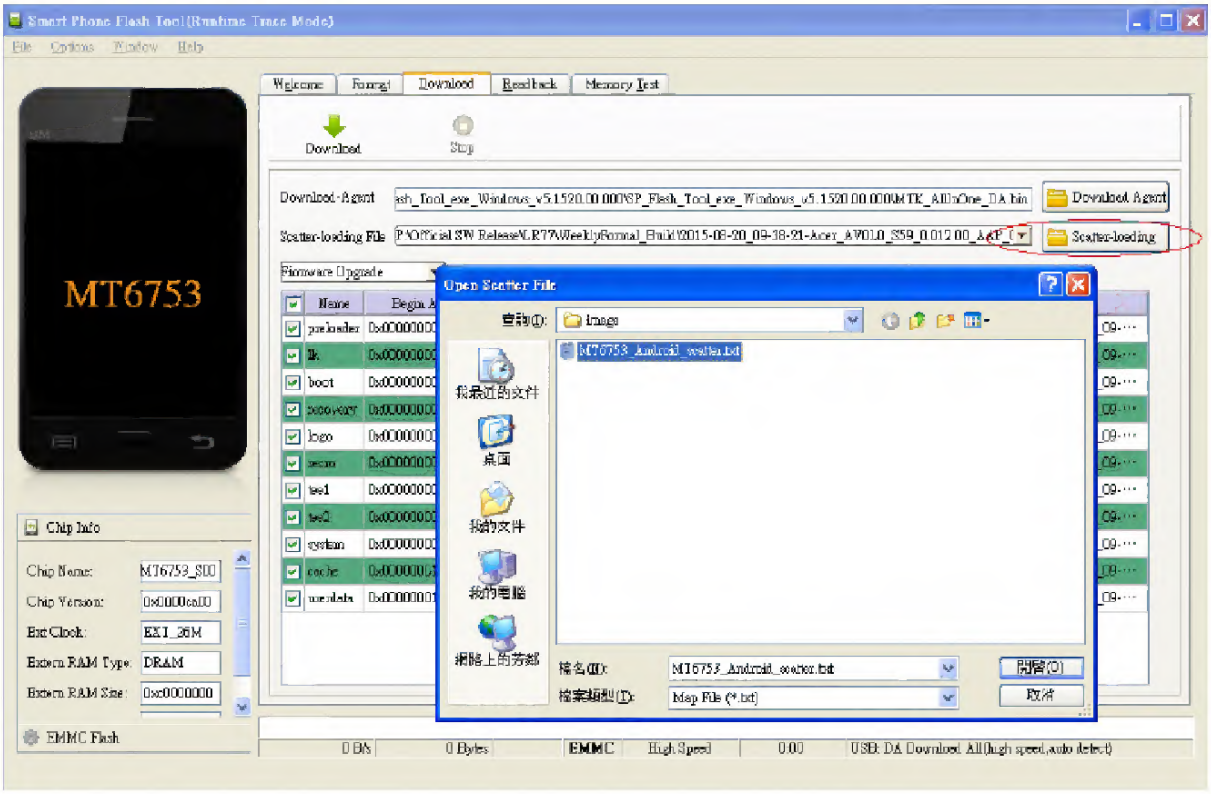

3. Choose "Firmware Upgrade" and then click the "Download".

Note：step1~3，the device is Power off and not connect the computer

3.3 Download Finished when show this page

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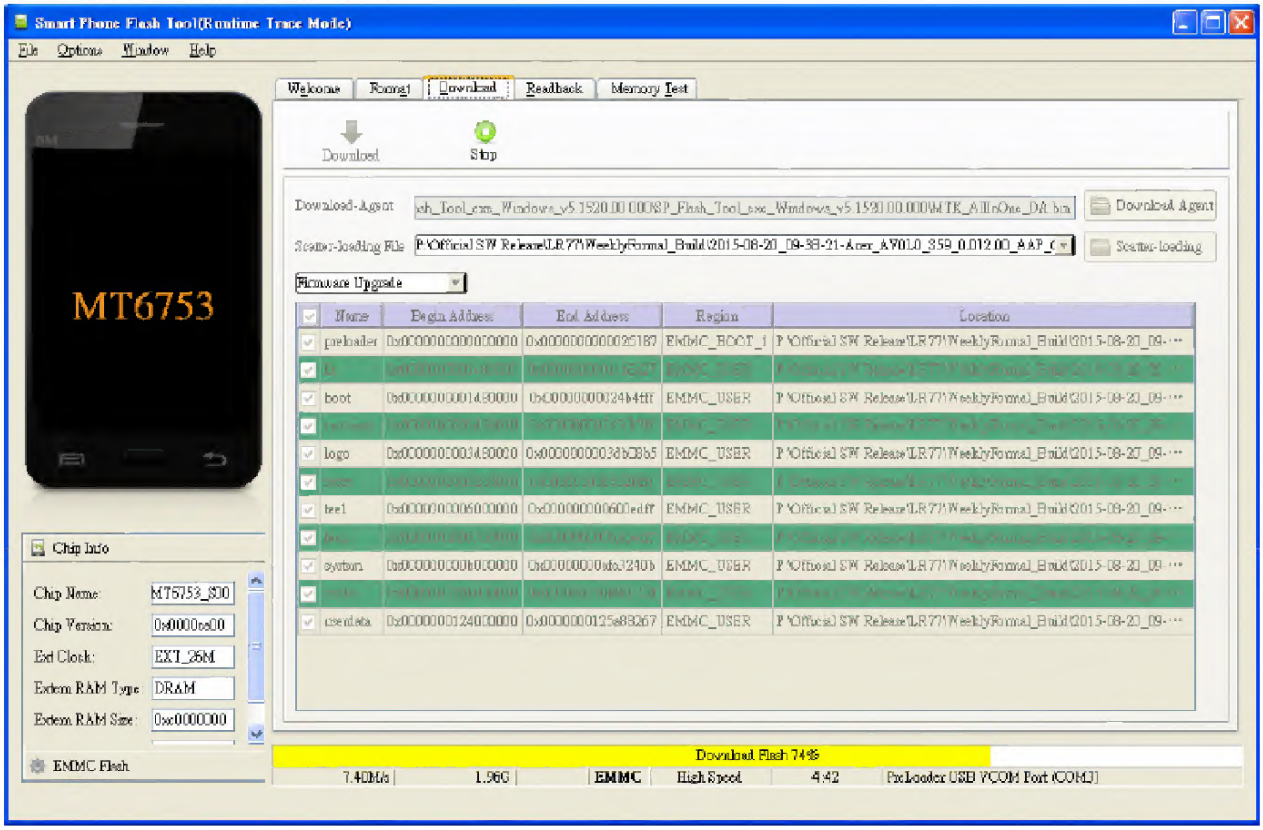

If MB changed or repaired, please do CID Modification after flash image

If you don’ t execute “CID modification” after flash, there might be some APP or function not workable.

CID Modification SOP

1. Dial #2237243# (Its meaning is #CID#) to enter main menu.
2. Put the value of CID for the country region as the indicated location No.1.
3. Press the “Set” button as the indicated location No.2.
4. Select “Backup to NVRAM” as the indicated location No.3.

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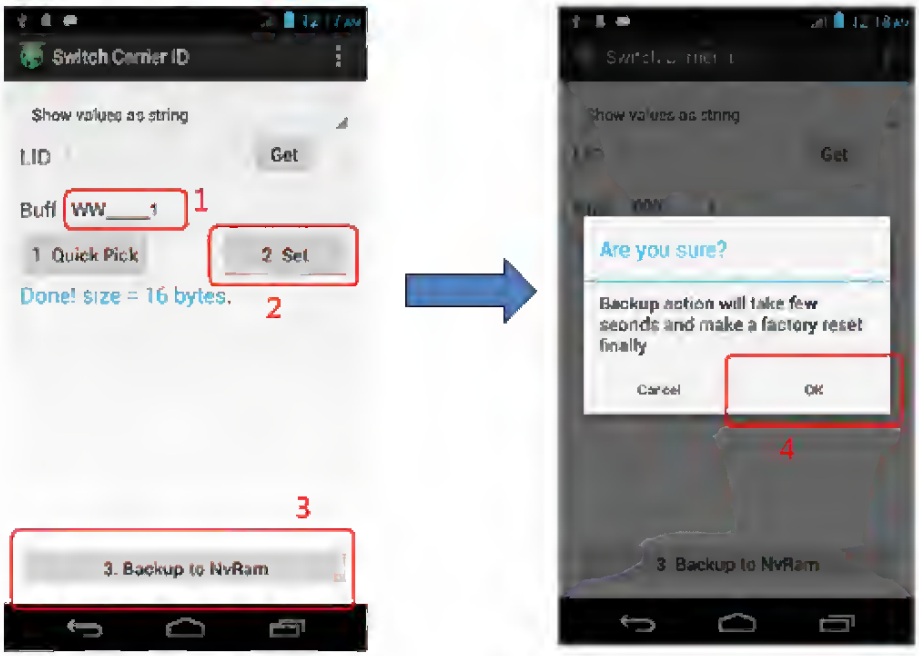
5. Press ok button as the indicated location No.4.



SW (SD Card) full upgrade SOP

1. Go to Settings —> About phone.

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Figure1

2. After you record down "Build number", power off the device.
3. Copy the upgrade file to root path of external SD card, and insert to the device.
   Normally, the upgrade file would be
   update-Acer_AV0L0_Z530_0.012.00_EMEA_GEN1-user-sd.zip
   But if we need to upgrade from/to DIFFERENT SKU, please select the "sds" upgrade file
   update-Acer_AV0L0_Z530_0.012.00_EMEA_GEN1-user-sds.zip
   Please notice the difference between update-xxx-sd.zip and updatexxx-sds.zip. And make sure there is enough free space (at least 2G) AFTER you put the update file to SD card.

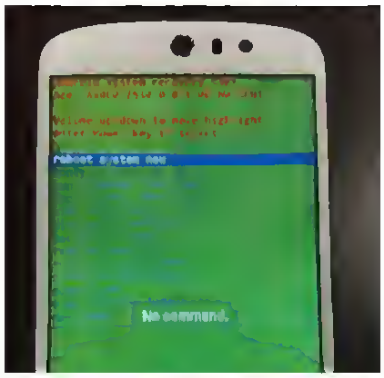

Figure2

4. Keep press Volume up and power button for 10 seconds and you will entering "Recovery Mode" as the Figure 2. Use Volume up/down to move highlight; Use power key to select.

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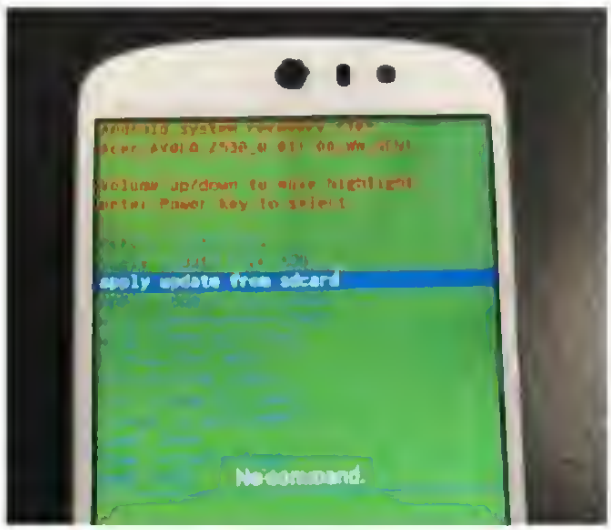

Figure 3

5. Press Volume down to "apply update from sdcard" and press Power key to trigger next step.

Figure 4

6. Press Volume up/down to select the update file and press Power key to trigger next step. After you press power key, you should see the device works like Figure 5. Please wait for few minutes for

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system update.

Figure 5

7. Once the update success, you can see some information from the screen. You should see the "Install from sdcard complete" like below.

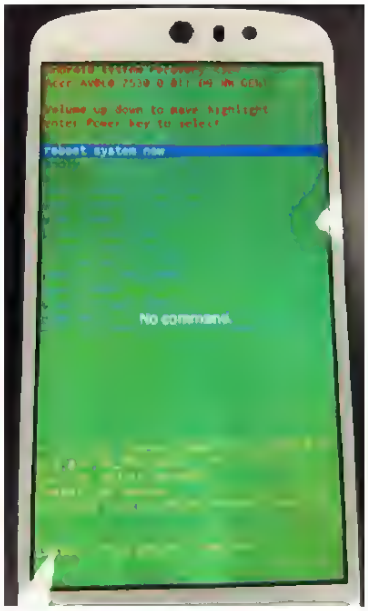

Figure 6

8. Please choose "reboot system now" to boot to Android OS. Double confirm the build version from Settings —> About Phone. Compare the Build number to step 2, it should be different and match the

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image version of the update file.

Figure 7

FAQ:

Some possible update fail reason:

(1) If the screen shows install fail. If could be possible that you are trying to apply a wrong update package. Please make sure you use the correct update-xxx-sd.zip for correct SKU.
If you are trying to update from SKU A to SKU B, please make sure your update file is SKU B's update-xxx-sds.zip

(2) There is another possible that the update file is corrupted when you copy it to the SD card from PC for some reason. Please delete the corrupted file on SD card and copy from an appropriate PC resource or even use another SD card for test.

Acer 22 code define and SOP

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The rules about Acer 22-digits SN:

Acer 22_Code_KC_SN PPPPPPPPPPYWWSSSSSMMVV

#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
22-Code	P	P	P	P	P	P	P	P	P	P	Y	W	W	S	S	S	S	S	M	M	V	V
Definition	ACER KC PN										Year	Week		Serial Number					MM		Version	
定義	ACER主要料件料號										年	周別		序號					廠別		版本	

Acer KC Label with KC Name	Acer KC Label without KC Name

PPPPPPPPPP: Acer KC PN (2-5-3 code) which is from the BOM by PM, 10 characters, without dots.

YWW: 1 digit of year and 2 digits for week code.

Y is for the last digit of year. For example. 9 if for 2009, 0 is for 2010, 1 for 2011, etc.

WW (week code) is counted from 01 to 53, and the definition of week 01 follows ISO 8601.

SSSSS: 5 unique hexadecimal codes, by manufacturer/factory base and reset every week.

Hexadecimal has 16 digits, they are 0~9,A, B, C, D, E and F.

First digit of SSSSS can not be F, so the maximum value of SSSSS is Hex (EFFFF) = 983039.

MM: Manufacturer code of original supplier or vendor herself, two digits defined by Acer.

VV. Engineering version code, two characters defined by ODM/vendor or original supplier.

22 SN Read/Write SOP

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1. Press [....] button to choose correct Modem Database and AP Database. [Figure 3]

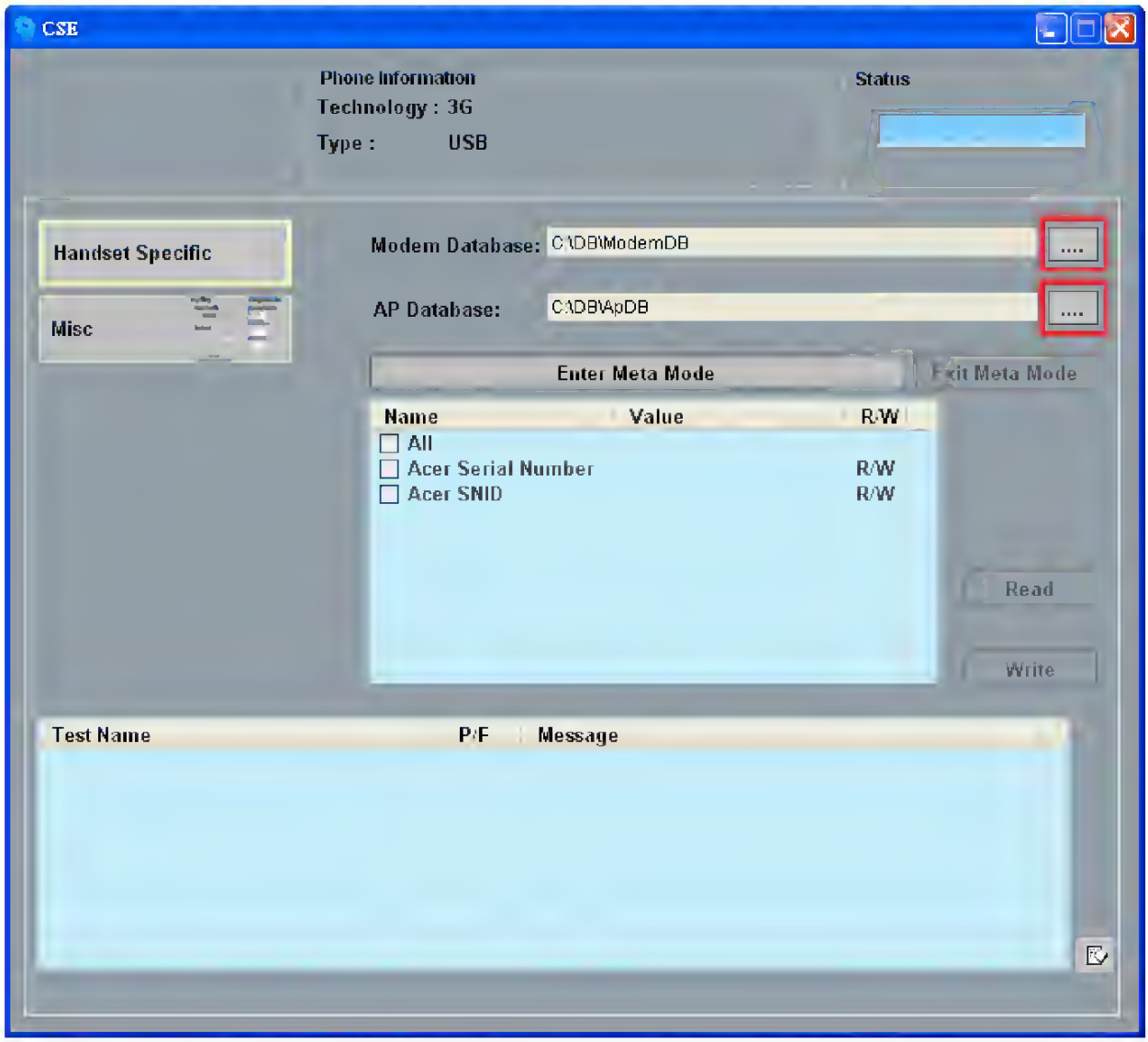

Figure 3. Select Modem Database and AP Database.

2. Please press "Enter Meta Mode" button, wait a second see the words change to "Please plug

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phone..." and then connect the USB cable to the computer and device link .[Figure 4]

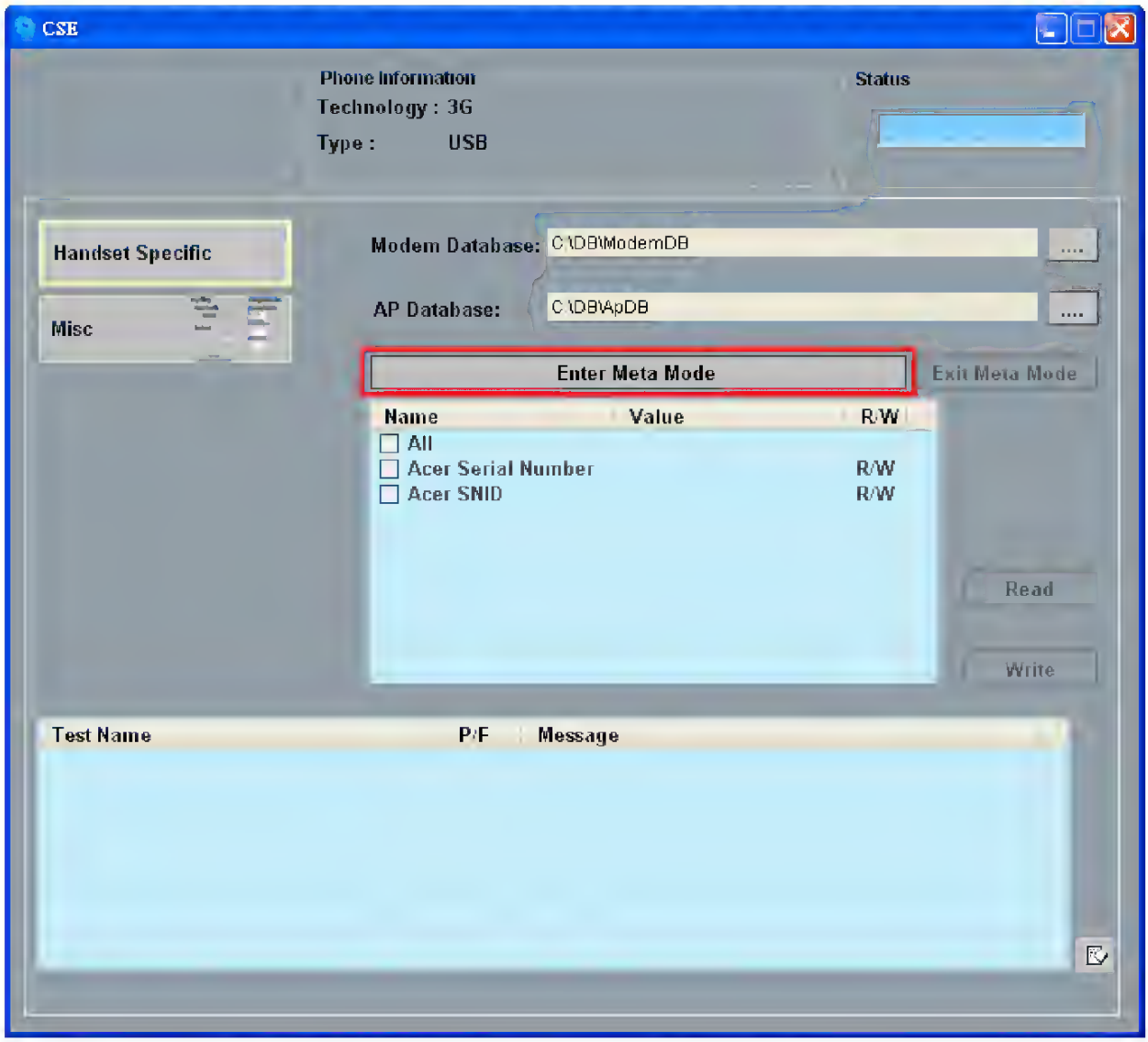

Figure 4. Enter Meta Mode

3. When device into "Meta mode" , UI will enable "Exit Meta Mode" 、 "Read" 、" Write"

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button , and

disable "Enter Meta Mode " button .[Figure 5]

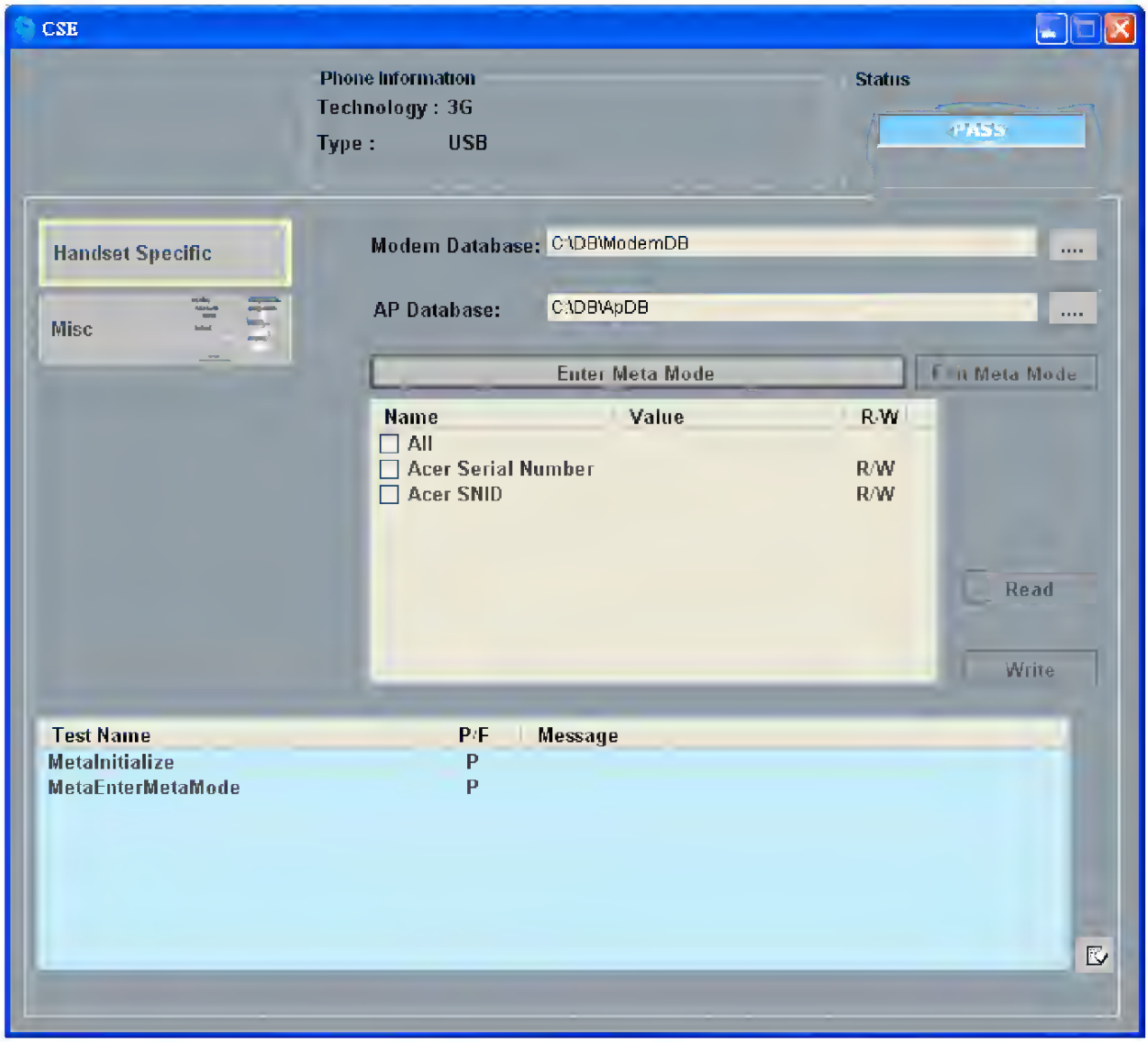

Figure 5. Enter Meta Mode.

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B. Read SN/SNID

1. Check SN and SNID feature items. [Figure 6]

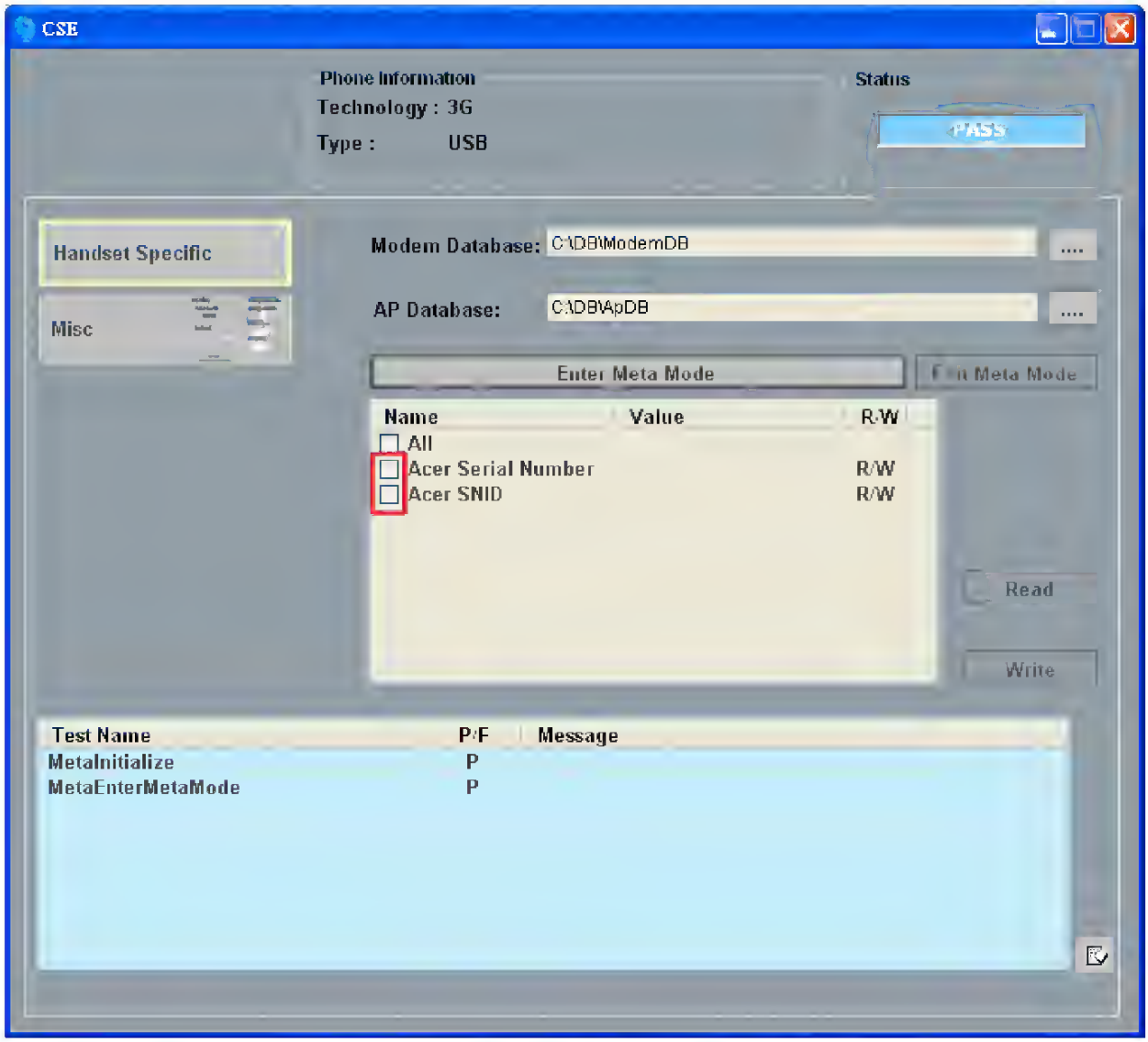

Figure 6. Check Serial Number and SNID item.

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2. Click Read button [Figure 7]

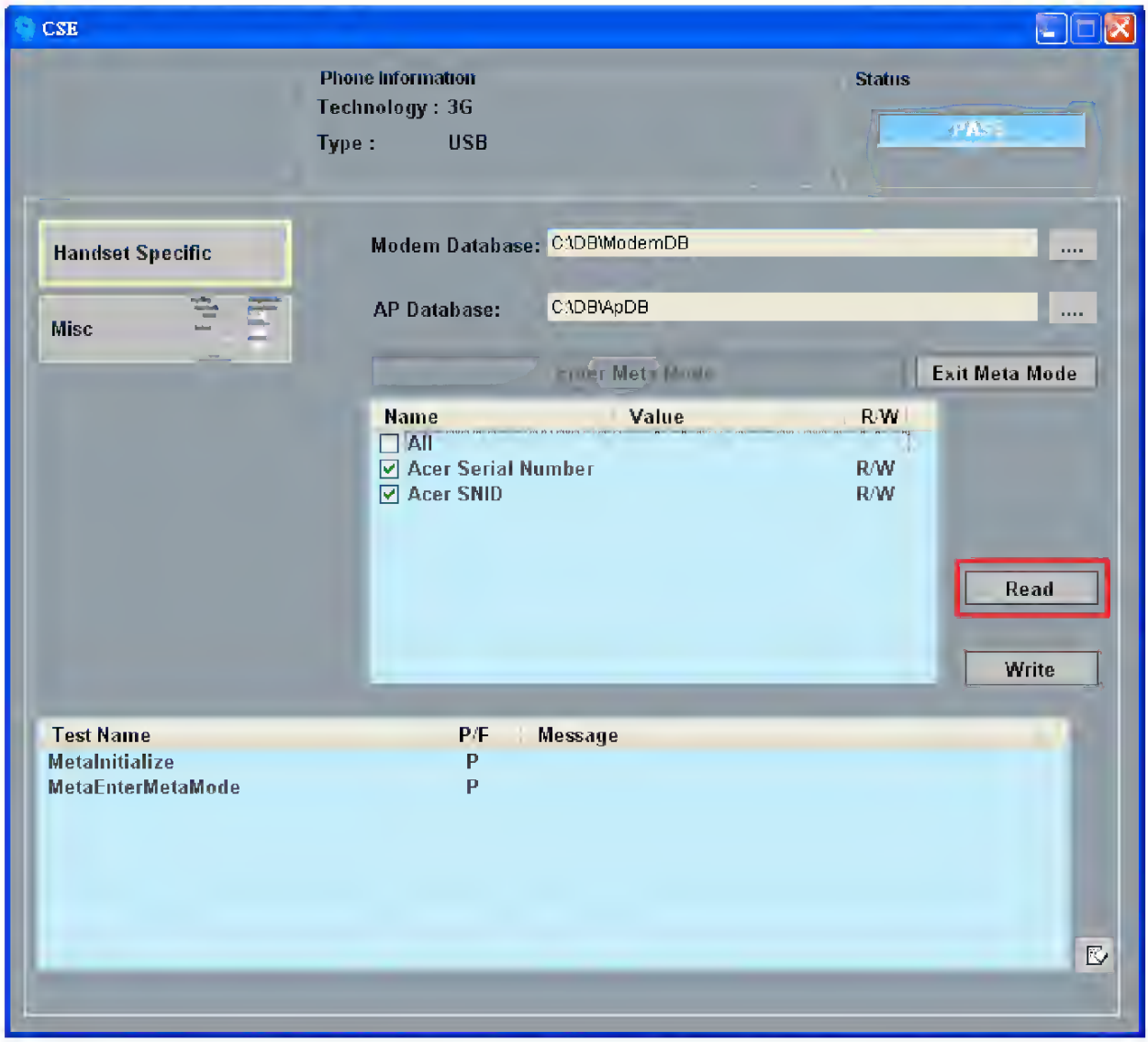

Figure 7. Click Read button

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3. SN and SNID are shown in themselves' "Value" column separately. The result of each performed operation is represented by "P" (pass) or "F" (failed) in the bottom list. The final result is shown in top right "Status" area. [Figure 8]

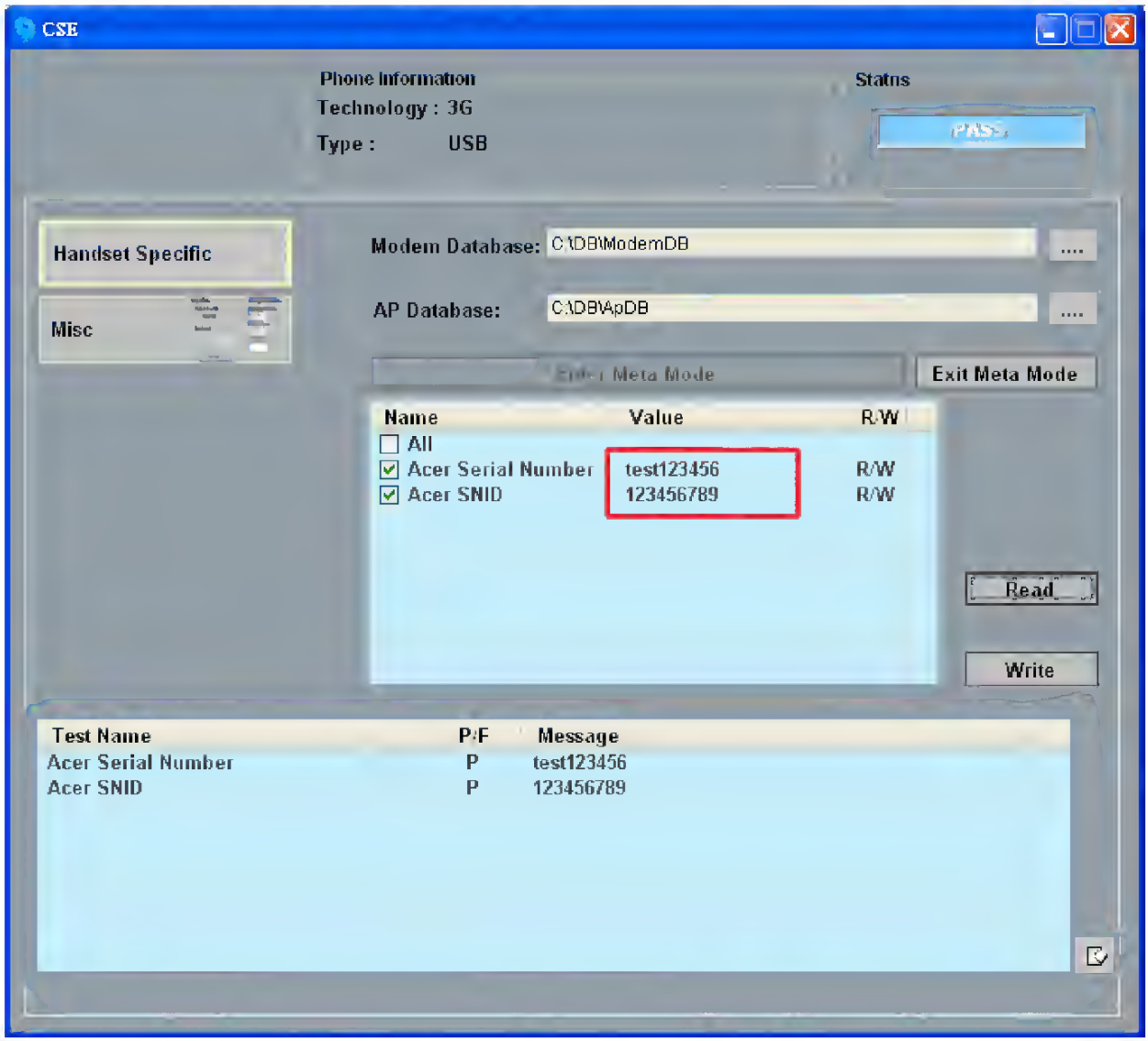

Figure 8. Read Serial Number and SNID result.

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Write SN/SNID

1. Check Serial Number feature items , double click Serial Number "Value" field , enter new SN , then click "Write" button. [Figure 9]

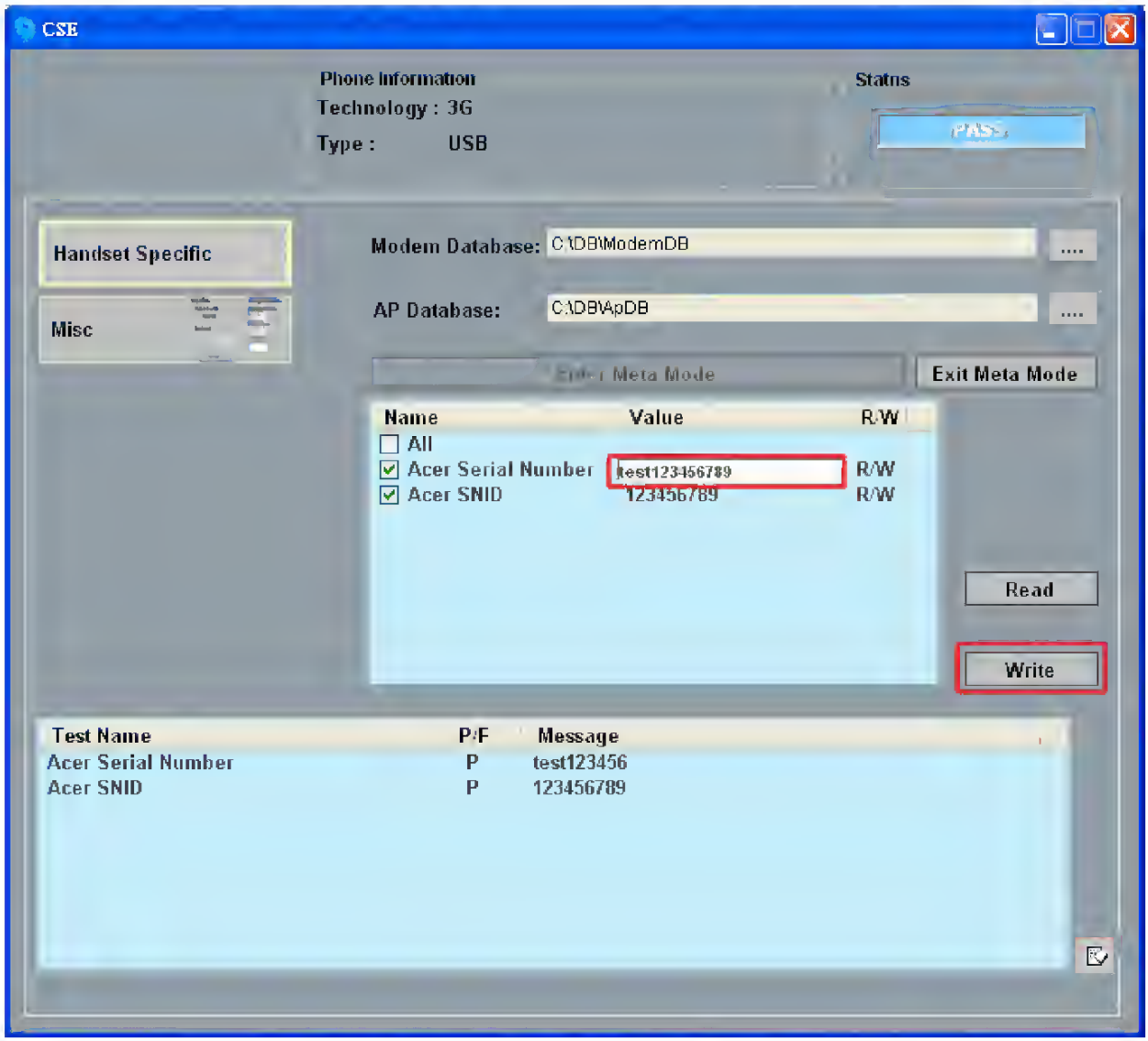

Figure 9. Check Serial Number and double click "Value" field.

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2. Pass or fail will show in "Status" filed. [Figure 10]

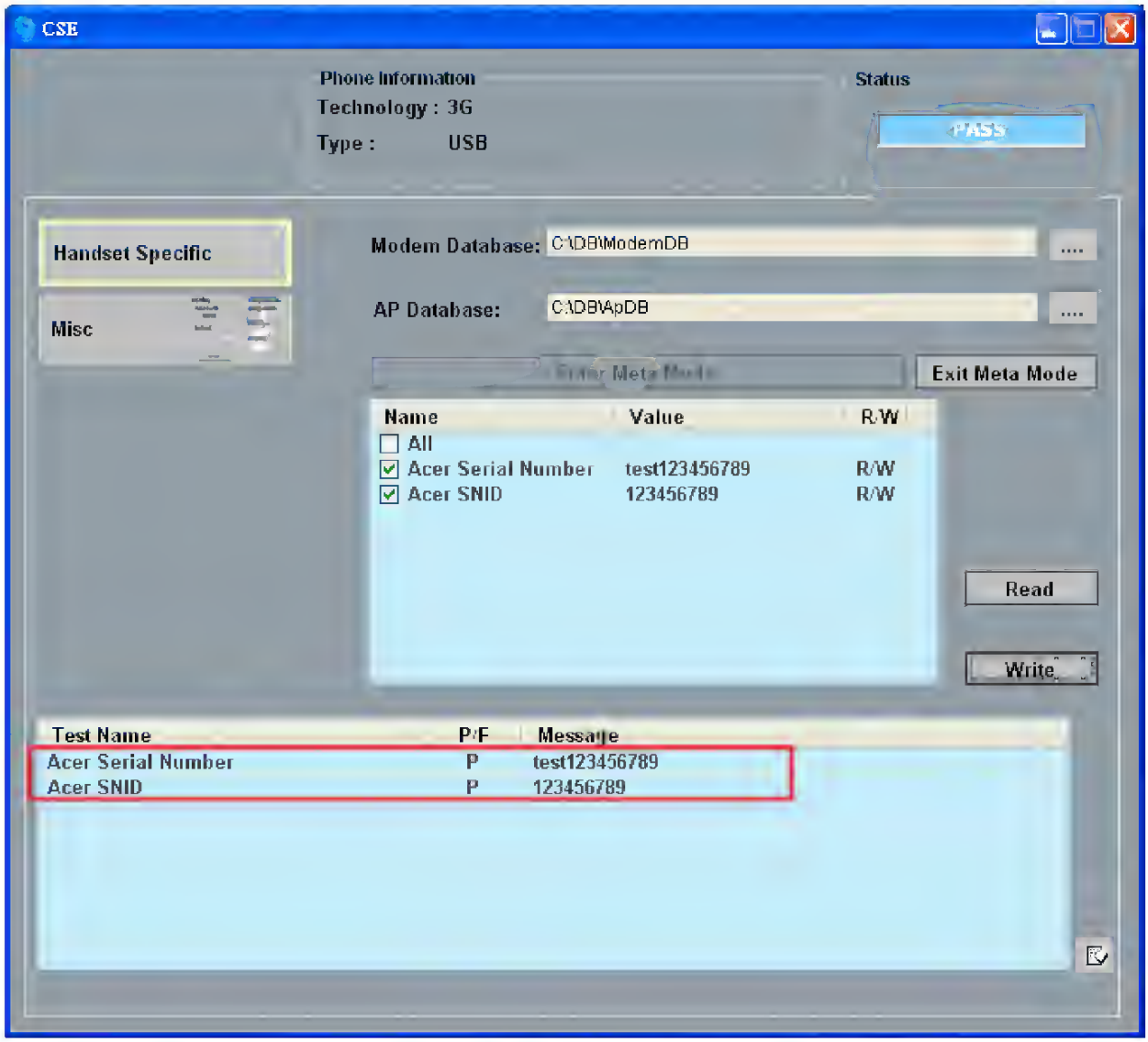

Figure 10. Write Serial Number result.

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Exit Meta mode

When all test complete, click "Exit Meta Mode" . Device will exit Meta mode and into charging mode. [Figure 11]

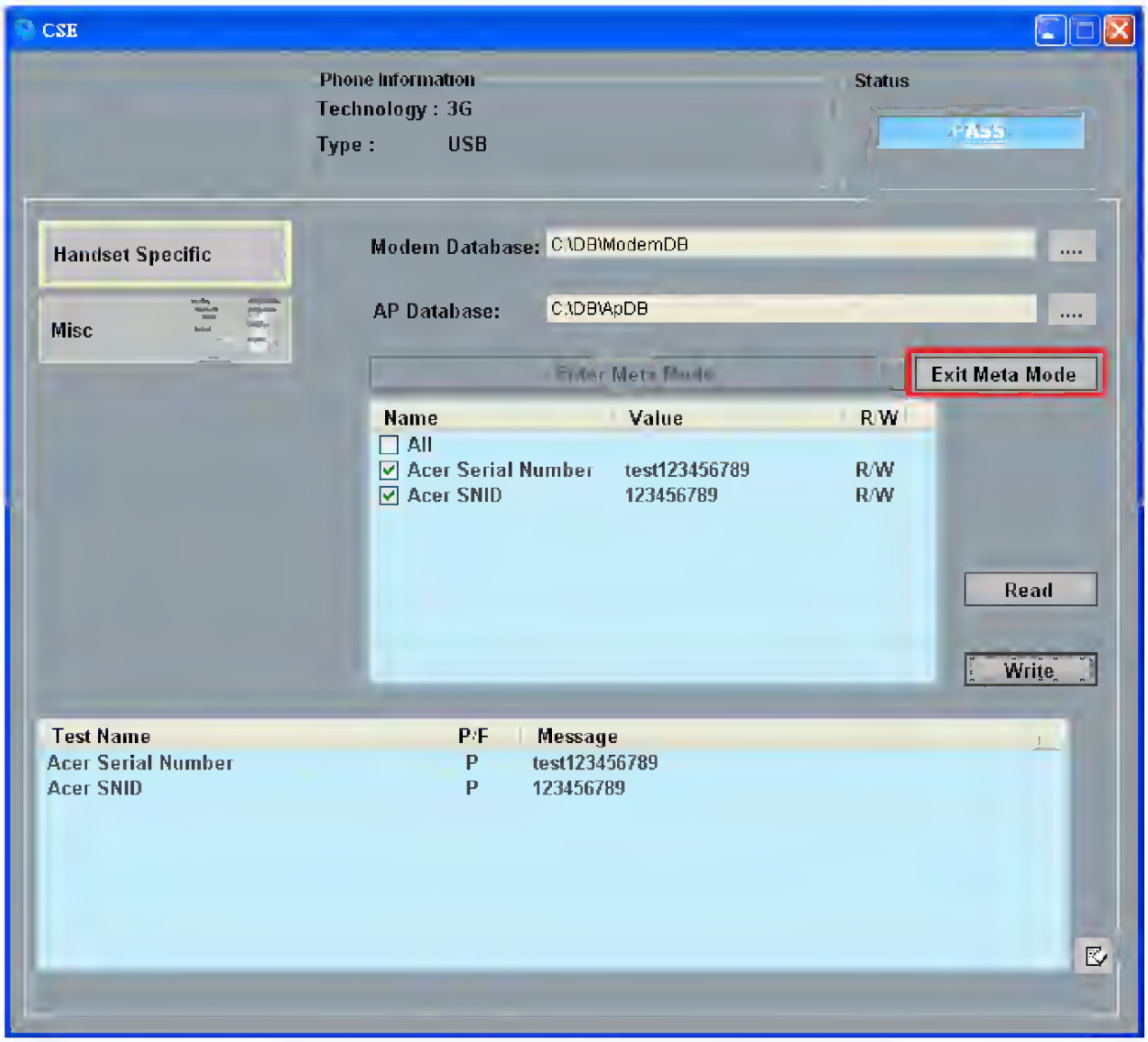

Figure 11. Test complete, Exit Meta Mode.

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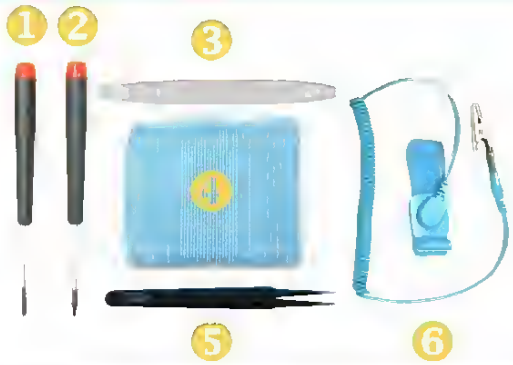
Device Disassembling and Assembling Procedure

Disassembly procedure	
	工具需求 1. Phillips screw-driver #00 2. Torx screw-driver T5 3. Opening tool 4. Cleaning cloth 5. ESD tweezers 6. ESD wrist strap
	Slightly lift the battery cover.

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Use an opening tool to remove the battery from the device.

Loosen 7 screws from the housing at the location indicated with Phillips screw-driver #00

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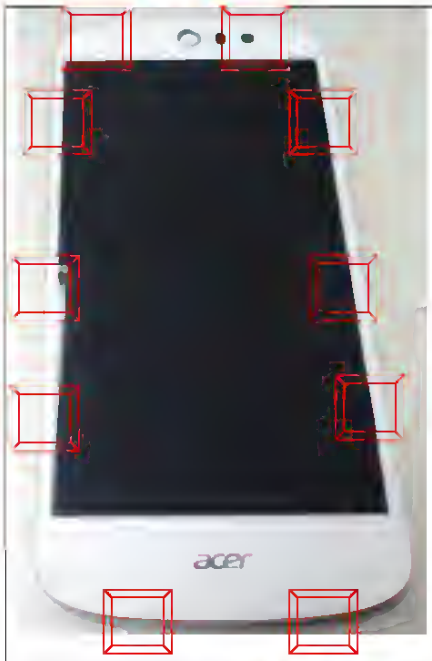

1. The hooks are at the location indicated.
2. Insert the opening tool in between the chassis and the housing to release the hooks at the location indicated.

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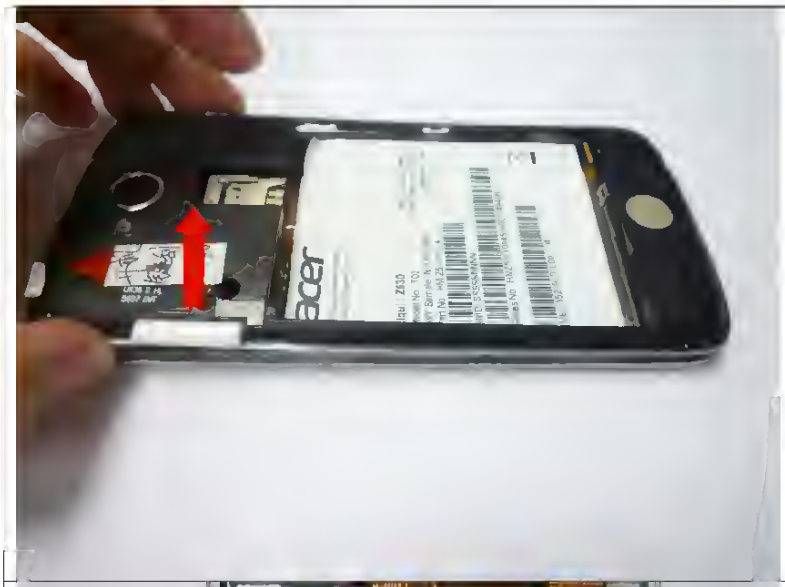	Lift the housing by following the direction of the arrow.
	Remove the device label from the chassis carefully.

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	Disassemble the main antenna box from the lower case.
	Use an opening tool to disassemble the speaker from the main antenna.
	Remove the Mylar from the TP FPC connector.

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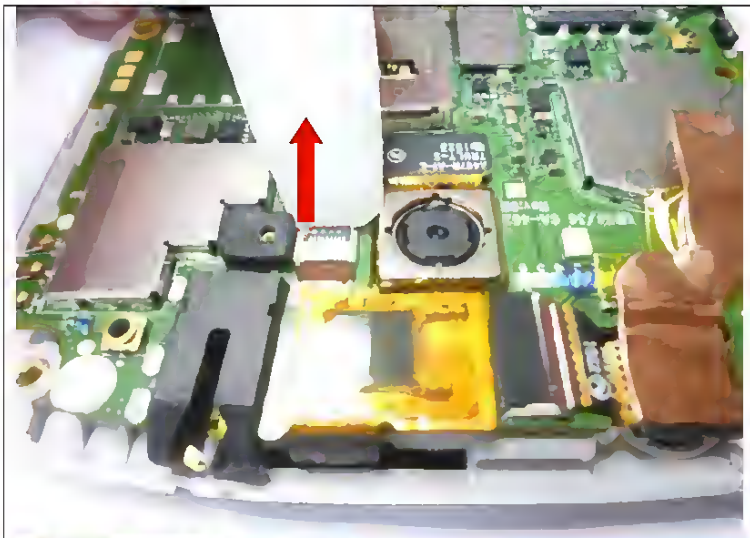	Use an opening tool to disconnect the TP FPC.
	Disconnect the RF coaxial cable from the main board carefully.
	Disconnect the RF coaxial cable from the sub board carefully.

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	Use an opening tool to disconnect the LCM FPC from the main board.
	Remove the Mylar from the main FPC connector.
	Use an opening tool to disconnect the TP FPC.

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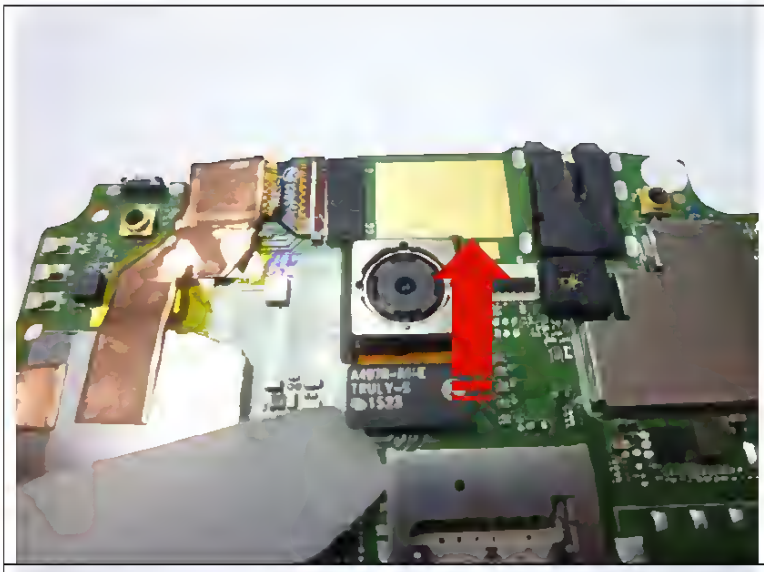
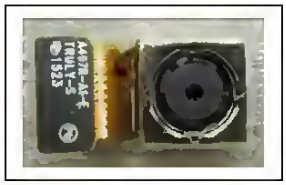
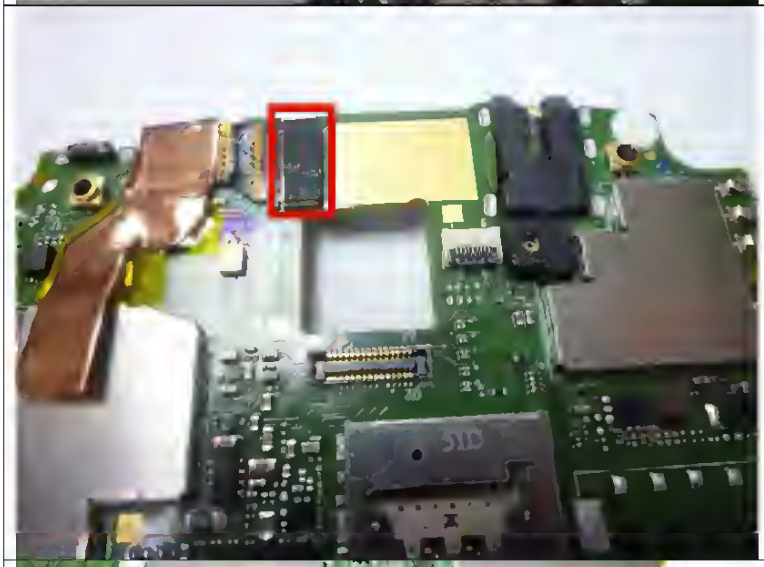
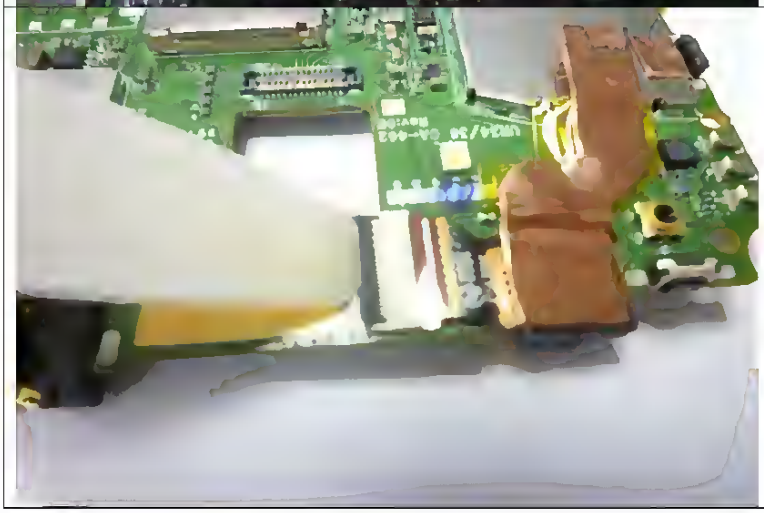
	Use an opening tool to disconnect the main camera from the main board. 
	Remove the Mylar from the front camera FPC connector.
	Use an opening tool to disconnect the front camera FPC connector.

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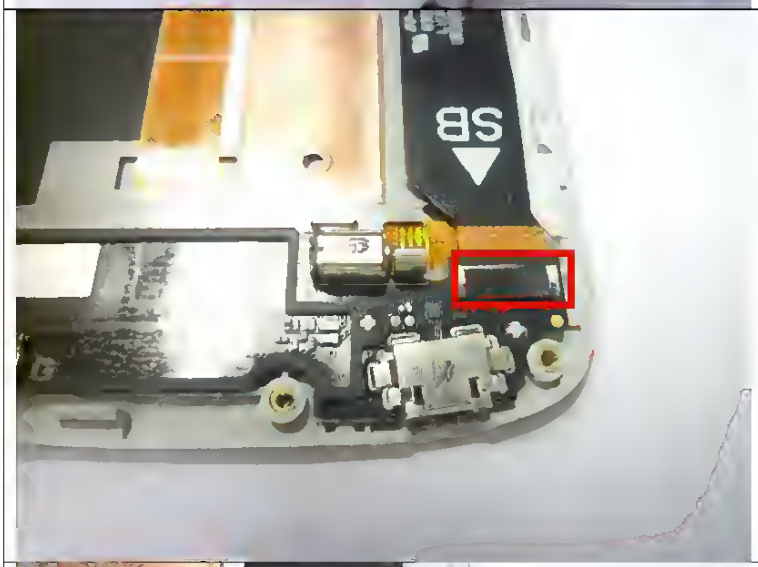
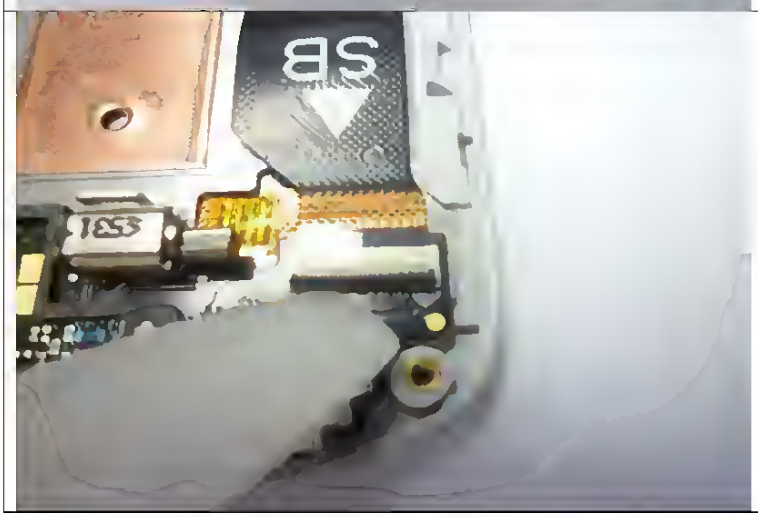
	Disassemble the front camera from the main board.
	Remove the Mylar from the sub board FPC connector.
	Use an opening tool to disconnect the sub board FPC connector.

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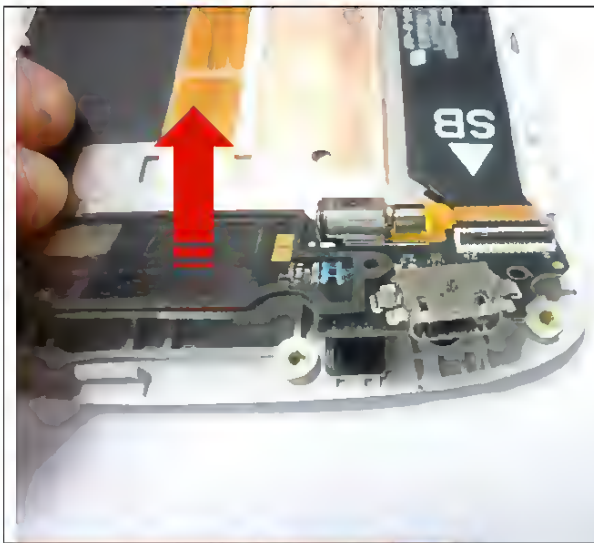	Lift up and disassemble the sub board from the chassis carefully.
	Disassemble the main FPC from the chassis.
	Use an opening tool to disassemble the receiver from the chassis carefully.

The disassembling process is done

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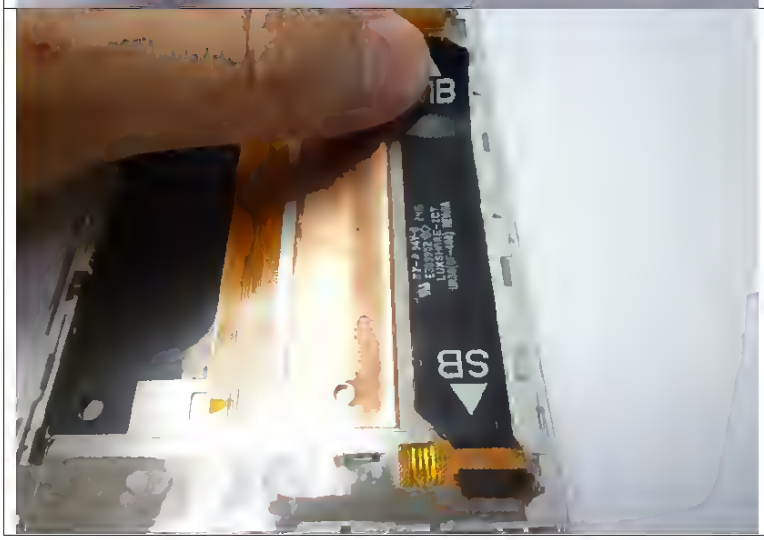
Assembly procedure	
	Assemble the receiver to the chassis.
	Assemble the 2nd MIC rubber to the chassis.
	Assemble the main FPC to the chassis.

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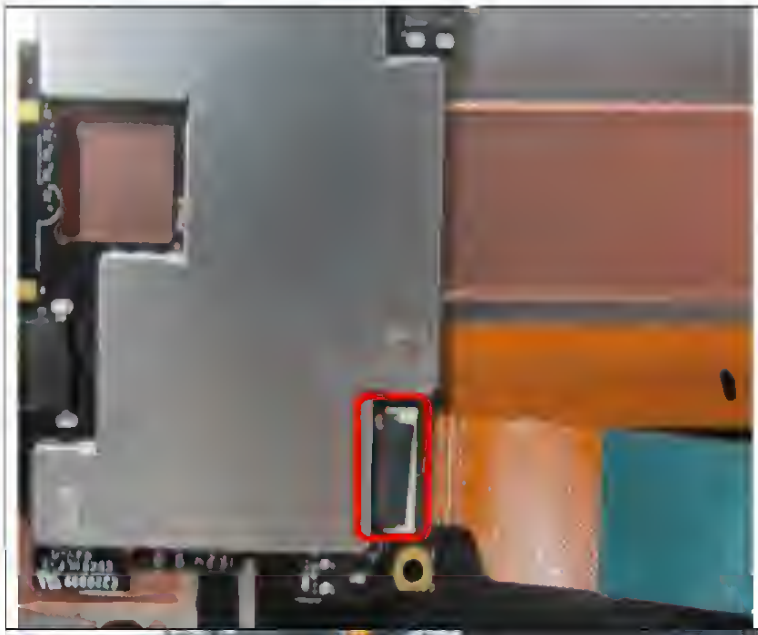
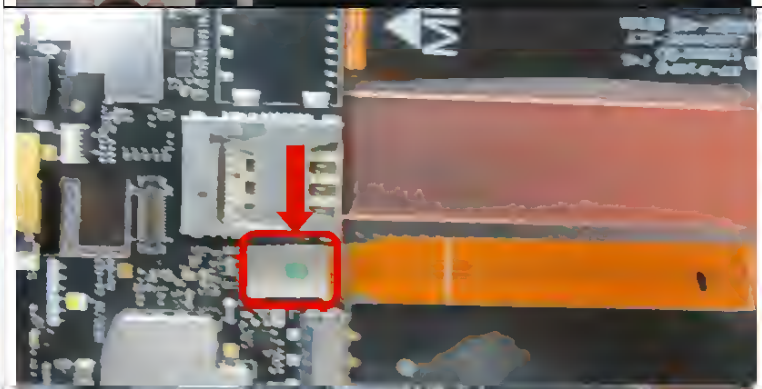
	1. Assemble the main board to the chassis. 2. Connect the main FPC to the main board. 3. Stick the Mylar to the main FPC connector.
	Connect the LCM FPC to the main board.
	Connect the front camera to the main board.

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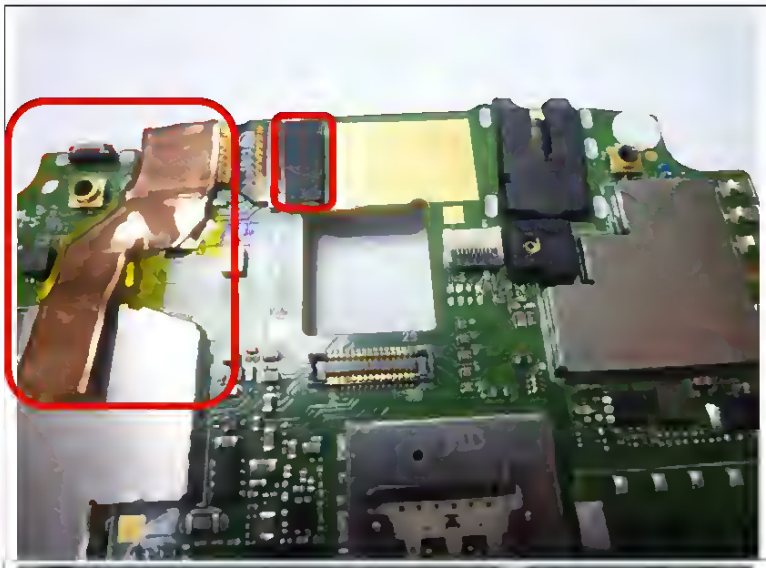	1. Stick the Mylar to the from camera connector. 2. Stick the copper foil to the front camera and main board as the indicated position.
	Remove the protect film as the indicated position.
	Connect the main FPC to the sub board.

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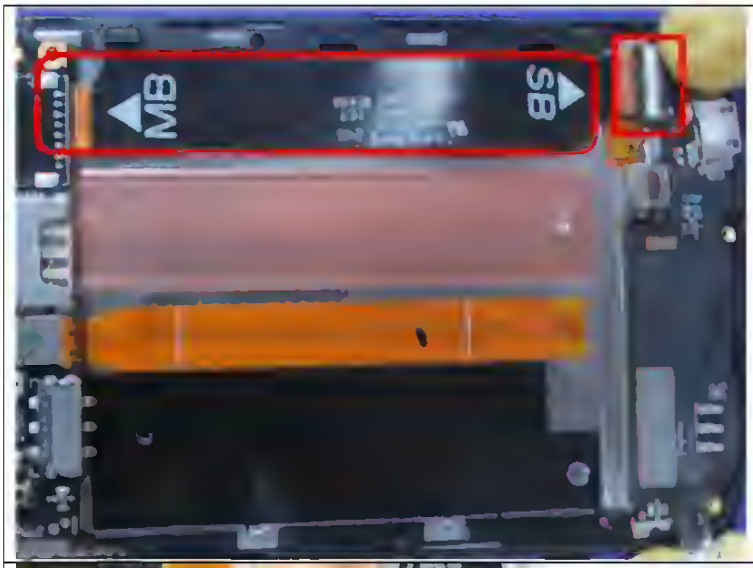
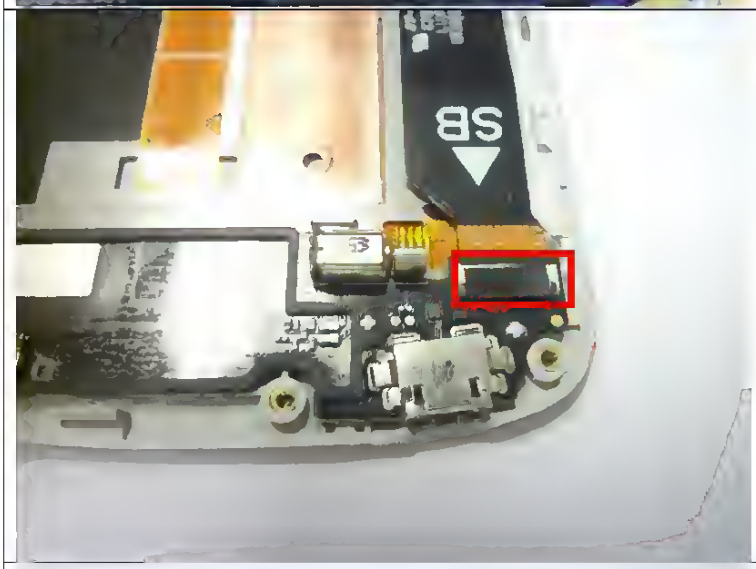
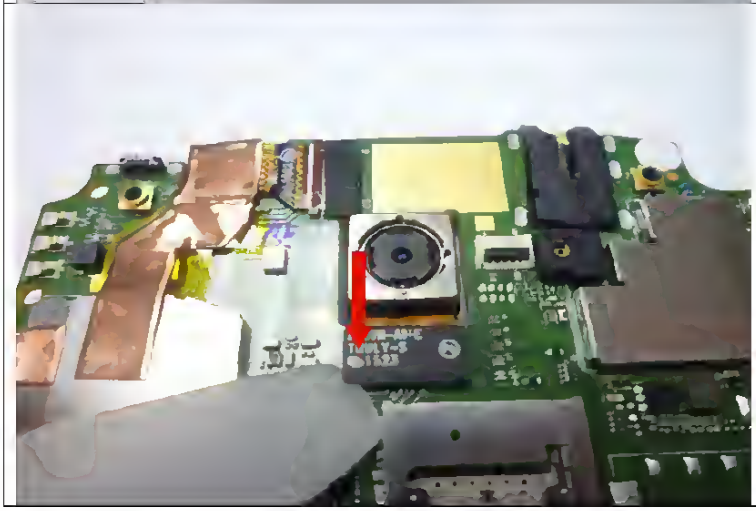
	Assemble the sub board to the chassis.
	Stick the Mylar to the sub board FPC connector.
	Assemble the main camera and connect the camera FPC to the main board.

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1. Connect the RF coaxial cable to the main board.
2. Connect the RF coaxial cable to the sub board.

Align the RF coaxial cable to the chassis as the indicated position.

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	Stick the adhesive double side tape to the main antenna. as the indicated position.
	Remove the protect file then assemble the speaker to the main antenna.
	Stick the speaker mesh to the main antenna.

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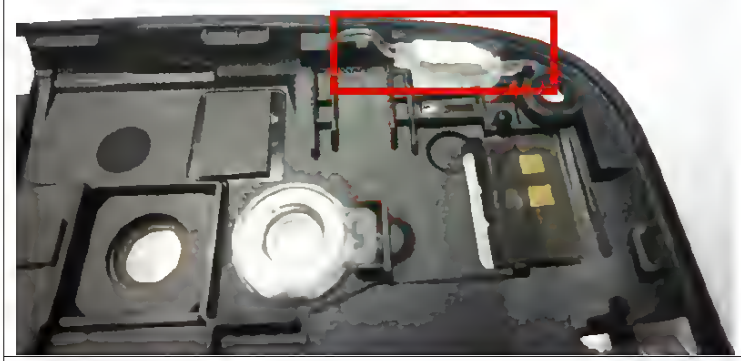
	Assemble the main antenna to the housing.
	Assemble the power key button to the housing.
	Assemble the volume key button to the housing.

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	Press the housing firmly.
	Fasten 7 screws at the location indicated. and follow the sequence when fasten the screws. Torque 0.5 ± 0.1 KGF-CM Note: Location No.1 must use 2700000121W for Japan SKU
	Insert the battery into the device.

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Press the battery cover down to lock the device. (You will hear a click when the back cover is locked in place)

The assembling process is done

Required tools and screws

CEI P/N	Qty-per	Description	Specification
2700000209W	7	SCREW	CROSS MA1.6 Y L3.4 BLK SWRCH18
2700000121W	1	SCREW	SCREW TORX MA1.6 Y L3.2 BLK S18A CHA (For Japan SKU only)

2700000209W:

2700000121W:

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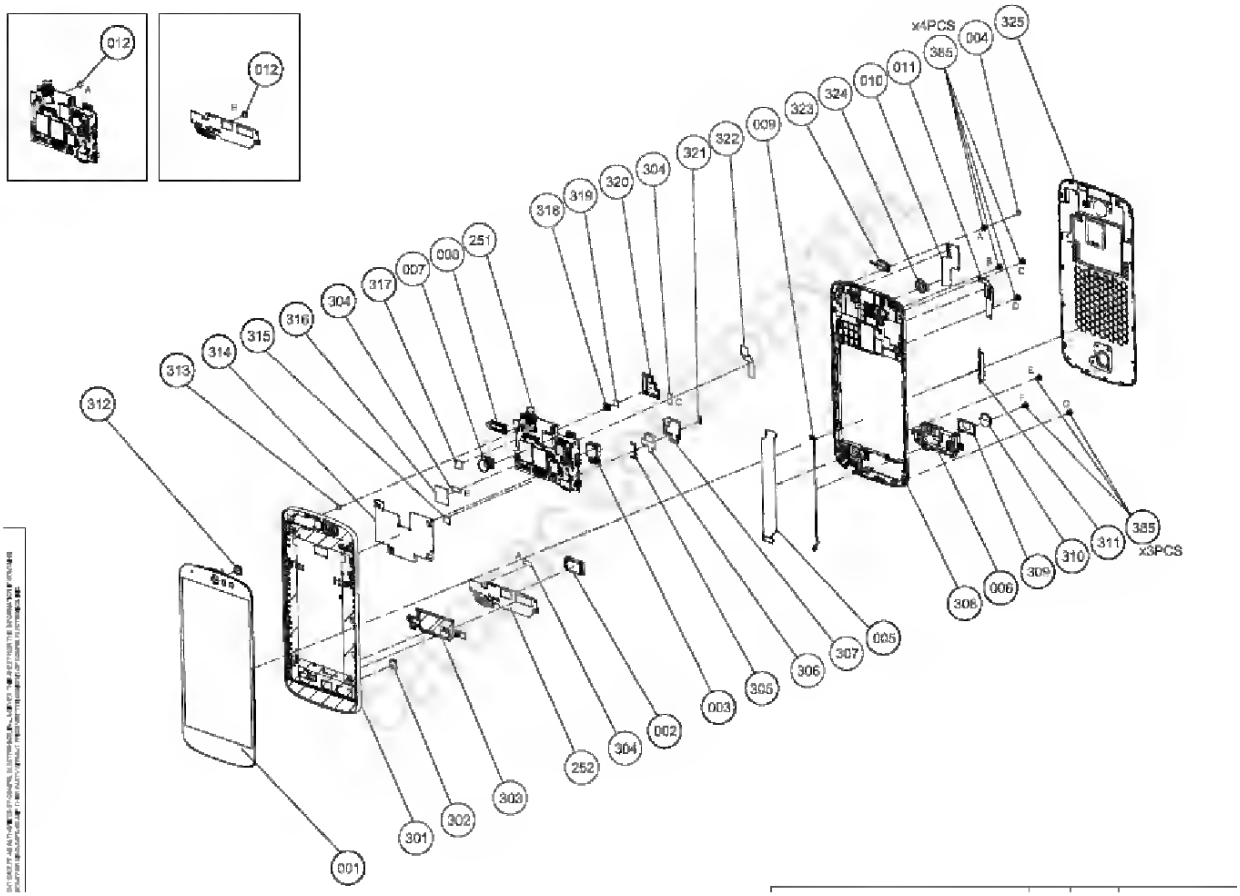
Diagnostics SOP

For Diagnostics tool & SOP, please refer to ADS (Acer Diagnostic system) for detail

Explode Diagram



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Spare part list

LEVEL	CATEGORY	ACER PART NO.	ODM PART NO.	ACER DESCRIPTION	ODM DESCRIPTION	Photo
1	ACCESSORY	KT.0010K.009	7610000189W	Battery Apack 1CELL Polymer 1S1P LGC 1 cell 2420mAh Main COMMON	BATTERY UR30 APP-12G-85870I-BD8111 APA	
1	ACCESSORY	HC.70211.021	7340000047W	Zx USB Cable- black	PCB042100307-4 JPC	
1	ACCESSORY	KP.00504.006	7620000263W	Adapter COMPAL 5W 5V/1A SP-241144 DSA-5PFM-05 FUS LF DVE, US type	ACCESSORY ADAPTOR-US	
1	ACCESSORY	KP.00504.004	7620000265W ->7620000389W	Adapter COMPAL 5W 5V/1A SP-241145 DSA-5PFM-05 FEU LF DVE, EU type	DSA-5PFM-05 FEU 050100 EU DEE	
1	ACCESSORY	KP.00504.005	7620000264W	Adapter COMPAL 5W 5V/1A SP-241146 DSA-5PFM-05 FUK LF DVE, UK type	ADAPTOR UK	
1	ACCESSORY	HC.70211.00K	7642000045W	EARPHONE	AA66 LF-H0102C LANF	
1	MAINBOARD	HB.70511.08A	78P9500002F	FRU M/B-ASSY DUAL EU 1G/8G	UR30 GA-463 MB ASSY DUAL FU 1G/8G(Kingston)	
1	MAINBOARD	HB.70511.08C	78P9500001F	FRU M/B-ASSY DUAL FU 2G/16G	UR30 GA-463 MB ASSY DUAL EU 2G/16G(Hynix)	
1	MAINBOARD	HB.70511.089	78P9500003F	FRU M/B-ASSY SINGLE EU 1G/8G	UR31 GA-463 MB ASSY SINGLE EU 1G/8G(KIngston)	
1	MAINBOARD	HB.70511.08E	78P9500004F	FRU M/B-ASSY DUAL US 1G/8G	UR32 GA-463 MB ASSY DUAL US 1G/8G(Kingston)	
1	MAINBOARD	HB.70511.08G	78P9500005F	FRU M/B-ASSY DUAL US 2G/16G	UR32 GA-463 MB ASSY DUAL US 2G/16G(Hynix)	
1	MAINBOARD	HB.70511.08D	78P9500008F	FRU M/B-ASSY SINGLE US 1G/8G	UR33 GA-463 MB ASSY SINGLE US 1G/8G(Kingston)	
1	MAINBOARD	HB.70511.08J	78P9500006F	FRU M/B-ASSY DUAL TW 2G/16G	UR34 GA-462 MB ASSY DUAL TW 2G/16G(Hynix)	
1	MAINBOARD	HB.70511.08H	78P9500009F	FRU M/B-ASSY SINGLE TW 2G/16G	UR35 GA-462 MB ASSY SINGLE TW 2G/16G(Hynix)	
1	MAINBOARD	HB.70511.08K	78P9500007F	FRU M/B-ASSY SINGLE JP 2G/16G	UR36 GA-462 MB ASSY SINGLE JP 2G/16G(Hynix)	

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2	MISCELLANEOUS		82NW330001W	WATERPROOF LABEL	WATTER LABEL(CLIFF WIL-3M5559-D3.6MM)	
2	MISCELLANEOUS		306QUR3013W	SPONGE_MAIN BOARD	SPONG TESA 4972 LCM BTB U ADH(MAIN BOARD)	
1	BOARD		78P9510001F	SUB BOARD ASSY WITH MICRO USB/VIBRATOR/MIC	SUB BOARD ASSY(GS-271)(MICRO USB/VIBRATOR/MAIN MIC)	
1	CAMERA	KR.08M08.001	7651UR3002W	Camera Module TRULY OPTO 8M FF CMA499-A8008F-E FPC OV _Z530 8M Front Camera	FRONT CAMERA(CMA499-A8008F-E TRULY)	
1	CAMERA	KR.08M08.003	7651UR3001W	Camera Module TRULY OPTO 8M AF CMA497-B8008A-E FPC OV _Z530 8M Rear Camera	REAR CAMERA(CMA497-B8008A-E TRULY)	
1	CASE/COVER/BRACKET ASSEMBLY		2240000070W	RECEIVER	RECEIVER(XHRH150630SW2BP25-01-RH HAOSHE)	
1	FAN SINK/SPEAK/EARPHONE /ETC		2250000160W	SPEAKER	SPEAKER(XHS160906WW40P40-06-RH HAOSHEN)	
1	LCD		78P9520002F	LCD MODULE(LCD.TP.UPPER) WHITE	Z530 UPPASY W/LCM+TP(WHITE)	

1	LCD	6M.HQSH2.001	78P95200030	LCD MODULE(LCD.TP.UPPER) BLACK	Z530 UPPASY W/LCM+TP(BLACK)	
2	MISCELLANEOUS	47.HQSH2.003	3068UR3001W	GASKET_UPPER CASE	EMI SUB PCB CONDUCTIVE(UPPER CASE)	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQSH2.002	78P95300030	LOW-ASSY DUAL BLACK FOR EU	Z530 LOW ASSY BLACK DUAL SIM for UR30 EU	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQTH2.001	78P9530002F	LOW-ASSY SINGLE BLACK FOR EU	Z530 LOW-ASSY BLACK SINGLE SIM for UR31 EU	
1	CASE/COVER/BRACKET ASSEMBLY	60.HRBH2.001	78P95300010	LOW-ASSY SINGLE BLACK FOR JPN	Z530 LOW-ASSY BLACK SINGLE SIM for UR36 JPN	
1	CASE/COVER/BRACKET ASSEMBLY		78P95300050	LOW-ASSY DUAL BLACK FOR TWN	Z530 LOW-ASSY BLACK DUAL SIM for UR34 TWN	

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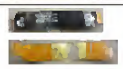
1	CASE/COVER/BRACKET ASSEMBLY	60.HQSH2.003	251AUR3002W	BATTERY COVER BLACK	BATTERY COVER ASSY(BLACK)	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQWH2.001	251AUR3004W	BATTERY COVER WHITE	BATTERY COVER ASSY(WHITE)	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQSH2.005	251AUR3007W	METAL GRAY FLIP-ASSY	METAL GRAY FLIP-ASSY	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQSH2.006	251AUR3008W	WHITE FLIP-ASSY	WHITE FLIP-ASSY	
1	CASE/COVER/BRACKET ASSEMBLY	60.HQSH2.004	2300UR3001W	MAIN ANTENNA FOR EU	Z530 MAIN ANTENNA for UR30/31 EU	
1	CASE/COVER/BRACKET ASSEMBLY	60.HRCH2.001	2300UR3201W	MAIN ANTENNA FOR TWN	Z530 MAIN ANTENNA for UR34 TWN	
1	CASE/COVER/BRACKET ASSEMBLY	60.HRBH2.002	2300UR3601W	MAIN ANTENNA FOR JPN	Z530 MAIN ANTENNA for UR36 JPN	

1	CASE/COVER/BRACKET ASSEMBLY	42.HQSH2.001	3125UR3002W	VOLUME KEY BLACK	VOLUME 2KEY(BLACK)	
1	CASE/COVER/BRACKET ASSEMBLY	42.HQWH2.001	3125UR3003W	VOLUME KEY WHITE	VOLUME 2KEY(WHITE)	
1	CASE/COVER/BRACKET ASSEMBLY	42.HQSH2.002	3125UR3001W	POWER KEY BLACK	POWER 1KEY(BLACK)	
1	CASE/COVER/BRACKET ASSEMBLY	42.HQWH2.002	3125UR3004W	POWER KEY WHITE	POWER 1KEY(WHITE)	
1	CABLE	50.HQSH2.001	7320000124W	RF CABLE	RF COAXIAL CABLE(L99P144-00001-H SPEED)	
1	CABLE	50.HQSH2.002	21UR300016W	MAIN FPC	Z530 MAIN FPC(GF-469 REV:1.0 M_S FPC)	
1	MISCELLANEOUS	47.HQSH2.004	306UR3002W	MYLAR_TP CONNECTOR	MYLAR TP ZIF(TP CONNECTOR)	
1	MISCELLANEOUS	47.HQSH2.005	306UR3006W	MYLAR_MAIN FPC	MYLAR MAIN FPC ZIF(MAIN BOARD/FRONT CAMERA/SUB)	
1	MISCELLANEOUS	47.HQSH2.006	306AUR3005W	FOIL_FRONT CAMERA	FRONT CAMERA CU FOIL(FRONT CAMERA)	
1	MISCELLANEOUS	47.HQSH2.007	303MUR3010W	SPONGE_MAIN ANTENNA	SK PSR03 SPK SEAL B(MAIN ANTENNA)	
1	MISCELLANEOUS	47.HQSH2.008	306MUR3003W	MESH_MAIN ANTENNA BLACK	SPEAKER OUTER MESH BLACK(MAIN ANTENNA)	
1	MISCELLANEOUS	47.HQWH2.001	306MUR3004W	MESH_MAIN ANTENNA WHITE	SPEAKER OUTER MESH WHITE(MAIN ANTENNA)	

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1	MISCELLANEOUS	47.H0SH2.009	4710000281W	DEVICE LABEL WW	Z530 Device Label_WW	
1	MISCELLANEOUS	47.H470W.008	82A8800001W	WARRANTY LABEL	WARRANTY LABEL(screw fragile Ø4mm)	
1	SCREW	86.H0SH2.001	2700000209W	SCREW M1.6*3.4	SCREW(CROSS MA1.6 Y L3.4 BLK SWRCH18)	
1	SCREW	86.HR8H2.001	2700000121W	SCREW M1.6*3.2 FOR JPN	SCREW TORX MA1.6 Y L3.2 BLK S18A CHA for Japan SKU only	

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